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Special robots - Terminology

特种机器人 术语

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is proposed and managed by the National Special Working Robot Standardization Working Group (SAC/SWG13).

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Special robot terminology

1 Scope

This standard defines the basic terms, terms and definitions related to special robots.

This standard applies to the design, production, sale, research, teaching, management and other fields of special robots.

2.1.1 Special robot specialrobot;professionalservicerobot

Applied to specialized fields, generally robots operated or used by specially trained

personnel to assist and/or replace humans performing tasks.

Note: Special robots refer to robots other than industrial robots, public service robots, and personal service robots. Generally refers to professional service robots.

2.1.2 Operation space operational space; operating space

Special robot with manipulator, when the manipulator executes all movements instructed by the mission program, the part actually used space.

Note: Rewrite GB/T 12643-2013, definition 4.8.3.

2.1.3 Working space workspace

A collection of target points that can be reached by an actuator or manipulator of a special robot.

2.1.4 Constraint space constraint space

The robot itself reduces space for robots due to environmental constraints.

2.1.5 Limited space restricted space

The part of the maximum space that can be exceeded by the limit device.

Note: For mobile platforms, this space can be defined by specific markings on walls and floors or software defined on memory maps.

[GB/T 12643-2013, definition 4.8.2]

2.1.6 Safety protection space safeguarded space

Space defined by perimeter security (devices).

[GB/T 12643-2013, definition 4.8.5]

2.1.7 Collaborative collaborative working

Exchange information and actions between multiple robots and/or between peripheral equipment and personnel to ensure the effective function of their movements to complete task.

Note: Rewrite GB/T 12643-2013, definition 2.27.